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(57) Claim

1. A transgenic starch producing plant or alga comprising a nucleotide sequence coding for an exogenous ADP glucose pyrophosphorylase (AGP) enzyme or a sub-unit thereof which retains the enzymatic activity of the AGP enzyme supplemented with a plastid transit peptide, wherein the nucleotide sequence is capable of being expressed in the plant or alga; and wherein the activity of the enzyme or sub-unit thereof is substantially independent of any level of *in vivo* 3-phospho-glycerate and any *in vivo* level of inorganic phosphate; and wherein the activity of the enzyme or sub-unit thereof is not stimulated by fructose-1,6-bisP and/or is not inhibited by AMP.